

# 中国肿瘤生物治疗杂志

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206~210. 钙结合蛋白S100A13在肝癌组织中的表达及其临床意义[J].张鹏,黄朋,郭先文,雷荣娥,岳成思,凌敏,林文珍,蔡丹昭,贺菽嘉,唐文珏,周素芳.中国肿瘤生物治疗杂志,2011,18(2)

# 钙结合蛋白S100A13在肝癌组织中的表达及其临床意义 点此下载全文

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基金项目: 国家自然科学基金资助项目(No.30760233); 广西自然科学基金资助项目(No.0728121)

DOI:

#### 摘要:

目的:探索钙结合蛋白S100A13(S100 calcium binding protein A13,S100A13)在肝癌(hepatocellular carcinoma,HCC)组织中的表达及其临床意义。方法:收集广西医科大学第一附属医院34例HCC及相应癌旁组织、18例正常肝组织标本,商业购置197例肝癌及相应癌旁高密度组织芯片。应用原位RT-PCR技术检测HCC组织、癌旁组织、正常肝组织中S100A13 mRNA的表达,使用免疫组织化学技术检测HCC组织、癌旁组织、正常肝组织中S100A13蛋白的表达,并用Image-Pro Plus软件分析免疫组织化学光密度值。结果:S100A13 mRNA在HCC、相应癌旁和正常肝组织中表达的阳性率分别为70 21%、51.06%和33.33%;S100A13 mRNA定位主要在胞核,多表达于核膜。S100A13蛋白在HCC、相应癌旁和正常肝组织中表达的阳性率分别为55.84%、38.96%及26.32%,HCC组织、中的平均D值最高(0.038±0.051),其次是癌旁组织(0.022±0.034),正常肝组织(0.01±0.009)最低(P<0.05);S100A13蛋白主要表达于HCC细胞的胞质中,部分细胞核偶见表达,此外在癌旁次生胆小管中及部分炎细胞中也存在高表达。S100A13蛋白在HCC中的表达与患者的性别、年龄及病理分级无关。结论:HCC组织高表达S100A13蛋白,S100A13蛋白,S100A13蛋白,S100A13可能具有作为肝癌治疗靶点的潜力。

### 关键词: S100A13 肝细胞性肝癌(HCC) 原位RT-PCR: 免疫组织化学

Expression of S100 calcium binding protein A13 in hepatocellular carcinoma and its clinical significance Download Fulltext

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Fund Project: Project supported by the National Natural Science Foundation of China (No.30760233), and the Natural Science Foundation of Guangxizhuang Autonomous Region of China (No.0728121)

# Abstract:

Objective: To explore the expression of S100 calcium binding protein A13 (S100A13) in hepatocellular carcinoma (HCC) tissues and its clinical significance. Methods: Thirty-four HCC tissues, 18 corresponding paracancerous tissues, and 9 normal liver tissues were obtained from First Affiliated Hospital of Guangxi Medical University, and the high density chips of 197 HCC tissues and corresponding paracancerous tissues were obtained from commercial company. In situ RT-PCR was used to detect the expression of S100A13 mRNA in HCC tissues, paracancerous tissues, and normal liver tissues. Immunohistochemistry was used to detect the expression of S100A13 protein in HCC tissues, paracancerous tissues, and normal liver tissues. We analyzed the optical density of immunohistochemistry results by Image-Pro Plus. Results: The expression rates of S100A13 mRNA in HCC tissues, their corresponding paracancerous tissues and normal liver tissues were 70.21%, 51.06%, and 33.33%, respectively. S100A13 mRNA was mainly expressed in the nucleus, especially in nuclear membranes. The expression rates of S100A13 protein in HCC tissues, their corresponding paracancerous tissues and normal liver tissues were 55.84%, 38.96%, and 26.32%, respectively. The highest average optical density was found in HCC tissue (0.038±0.051), followed by paracancerous tissues (0.022±0.034), and the lowest was found in normal liver tissues (0.01±0.009) (P<0.05). S100A13 protein was mainly expressed in the cytoplasm of HCC cells, occasionally in the nucleus; the secondary bile canaliculi and some inflammatory cells also showed high S100A13 protein expression. There was no correlation between S100A13 expression and the sex, age, and tumor grade of HCC patients. Conclusion: S100A13 protein is highly expressed in HCC, and it might serve as a potential target in HCC therapy.

Keywords: S100A13 hepatocelular carcinoma (HCC) in situ RT-PCR immunohistochemistry

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